

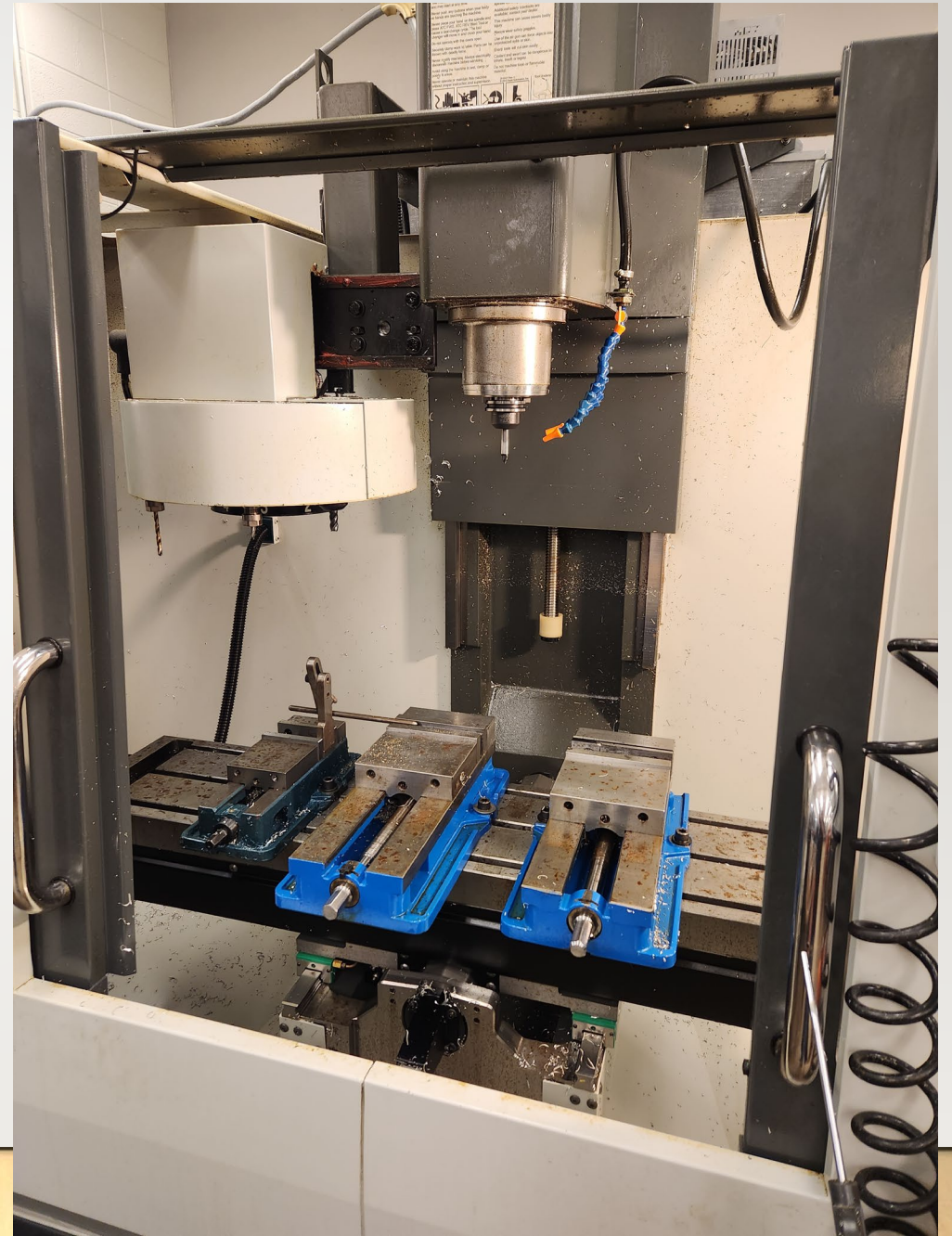
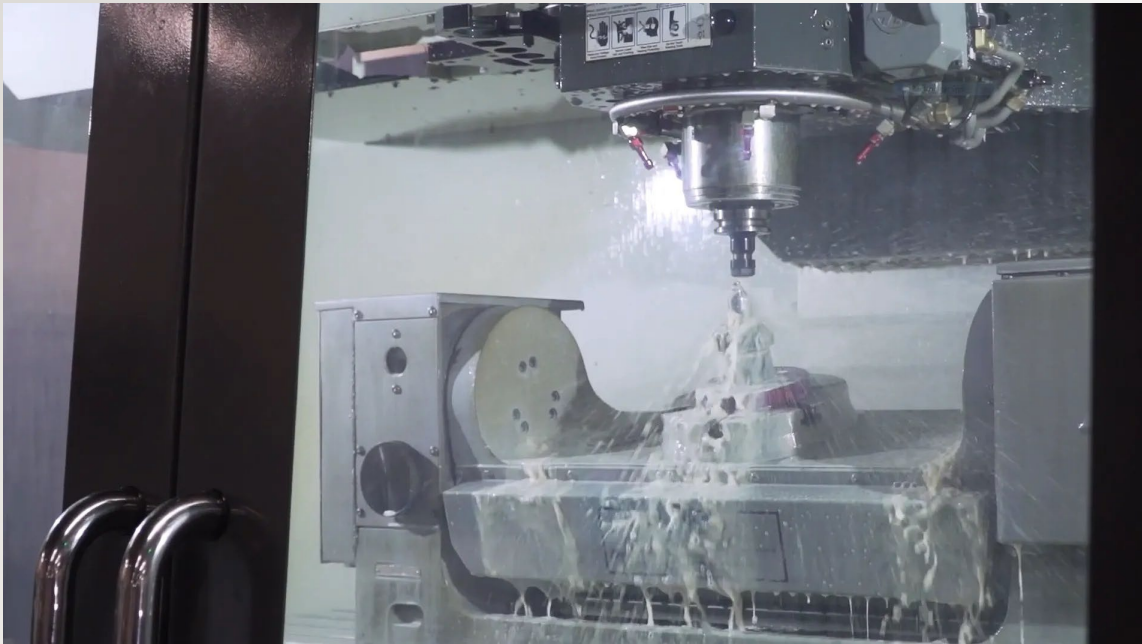


CNC CODES

MILL



Mill Architecture



Basic Mill G-Codes

Code	Function	Subcodes
G00	Rapid Travel Positioning	X,Z,U,W,B
G01	Linear Travel Move	X,Z,U,W,B,F
G02/G03	Circular Interpolation CW/CCW	X,Z,U,W,I,K,R,F
G04	Dwell	P (P=Seconds)
G17/G18/G19	Circular motion plane XY/ZX/YZ	
G20/G21	INCH/METRIC	
G28/G53	Rapid to machine Reference (home)	X,Z,U,W,B
G41/G42	Cutter Comp Left/Right	X,Y,D
G43/G44	Cutter Length Comp +/-	H,Z
G40	Cutter Compensation Cancel	X,Z,U,W,I,K
G54-G59 G154 P1-P99	Work offset	
G84	Tapping Canned Cycle	X,Y,A,B,Z,J,R,L,F
G81/G83	Drilling Canned Cycle	G81 straight drilling G83 deep drilling
G80	Canned Cycle Cancel	

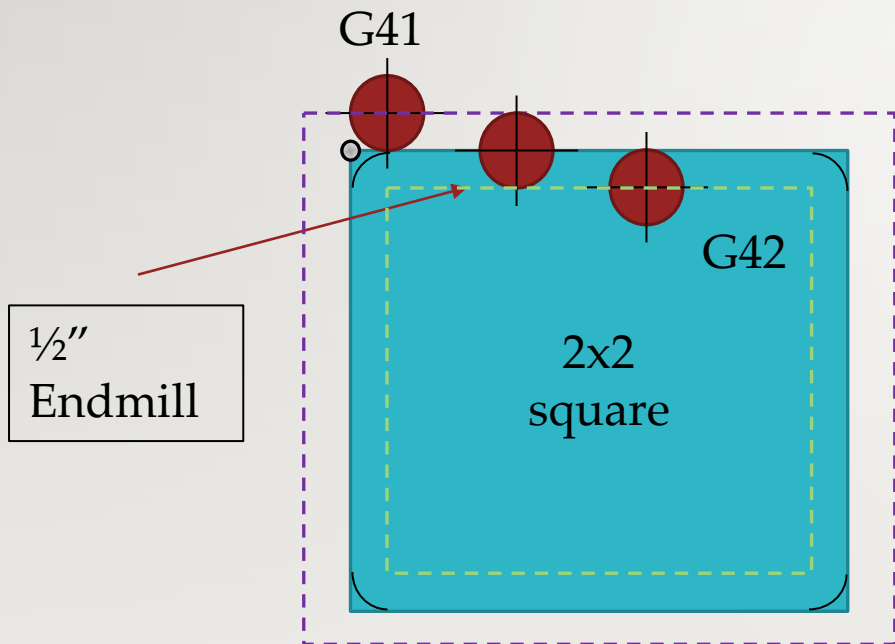
G28 vs G53



Basic Lathe M-Codes

Code	Function	Subcodes
M00	Program Stop	
M01	Optional Stop	
M03/M04	Spindle on CW/CCW	
M05	Spindle Stop	
M06	Tool Change	Needs Txx
M08/M09	Coolant ON/OFF	
M19	Orient Spindle	
M31/M33	Chip Auger ON/OFF	
M98/M99	Program Loop	M98 Call M99 Program Return

Cutter Compensation



6:28

NO

Offsets

Active Tool: 0

Tool Offset	Length Geometry(H)	Length Wear(H)	Diameter Geometry(D)	Diameter Wear(D)
1	0.	0.	0.	0.
2	0.	0.	0.	0.
3	0.	0.	0.	0.
4	0.	0.	0.	0.
5	0.	0.	0.	0.
6	0.	0.	0.	0.
7	0.	0.	0.	0.
8	0.	0.	0.	0.
9	0.	0.	0.	0.
10	0.	0.	0.	0.
11	0.	0.	0.	0.
12	0.	0.	0.	0.
13	0.	0.	0.	0.
14	0.	0.	0.	0.
15	0.	0.	0.	0.
16	0.	0.	0.	0.
17	0.	0.	0.	0.
18	0.	0.	0.	0.

Enter A Value

F4 Set Value ENTER Add To Value F4 Work Offset



Lets step through a program!

- [O44444 \(mount\).txt](#)